

ABSTRACT

The present invention is a method for feeding a mixture comprising a burnable solid and water to a combustion furnace or gasification reactor, comprising heating the mixture with a heater to convert at least
5 a part of the water in the mixture into a form of steam and feeding the whole mixture to a combustion furnace or gasification reactor, wherein the whole mixture is transferred between an inlet of the heater and the combustion furnace or gasification reactor by a pump, characterized in that a discharge pressure at the pump is higher than an inner pressure
10 in the combustion furnace or gasification reactor at least by 1.5 MPa and not higher than 22.12 MPa, and that a flow rate of said mixture with at least a part of the water being in a form of steam is from 6 to 50 m/s in a pipe in the heater and in a pipe between an outlet of the heater and an inlet of the combustion furnace or gasification reactor. The
15 present invention provides a method for feeding a mixture of a burnable solid and water to a combustion furnace or gasification reactor, comprising heating the mixture with a heater to convert at least a part of the water in the mixture into a form of steam and feeding the whole mixture to a combustion furnace or gasification reactor, wherein almost
20 no abrasion is caused in the pipes where the mixture flows and a stable feed of the mixture to a combustion furnace or a gasification reactor is attained without sedimentation of the burnable solid.